

★HVDC= X12 92-380387/46 ★SU 1704170-A1
Conductor for aerial power transmission - consists of steel core
surrounded by aluminium and aluminium alloy

HV DC POWER TRANSMISSION RES INST 90.08.22
90SU-4730944

L03 M27 (92.01.07) H01B 5/08

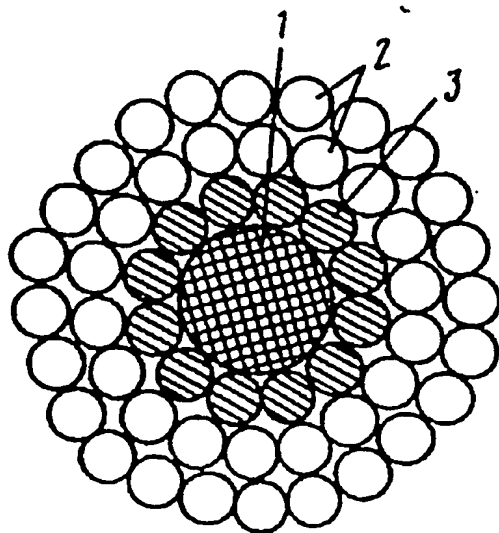
An electrical conductor consists of a multiple wire steel core
superimposed with layers of aluminium wires and an additional
layer of wires made from an alloy comprising (mass%):
magnesium 0.45-0.60; silicon 0.45-0.60; iron 0.40-0.70 and balance
aluminium.

The conducting element consists of a multiple wire steel core
(1) surrounded by a layer of wires made from the alloy (2) and
covered by at least two layers of aluminium wires (3). It has a
resistance of 0.662.10 power 4 omega/m at 200 Hz.

USE/ADVANTAGE - The electrical conductor finds
application in aerial power transmission. Compared to the prototype
(AS-600/72) the conductor has 4% lower resistance and 11% greater
tensile strength, and costs no more to produce. Bul.1/7.1.92 (3pp
Dwg.No.1/2)

N92-289988

X12-D02X



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128, Theobalds Road, London WC1X 8RP, England

US Office: Derwent Inc., 1313 Dolley Madison Boulevard,
Suite 401 McLean, VA22101, USA

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